

## What is Claimed is

1. (deleted)

2. (amended) A humanized antibody specific for HBV surface antigen pre-S1, containing humanized heavy chain variable region which comprises amino acid sequence described by SEQ ID NO: 20.

3. (amended) A humanized antibody specific for HBV surface antigen pre-S1, containing humanized heavy chain variable region which comprises amino acid sequence described by SEQ ID NO: 21.

4. (amended) The humanized antibody of claim 3, wherein the humanized heavy chain variable region comprises an amino acid sequence which is modified from an amino acid residue of SEQ ID NO: 21 by at least one amino acid substitution selected from the group comprising

Lys <sup>17</sup> → Val <sup>17</sup> ,	Thr <sup>28</sup> → Ala <sup>28</sup> ,	Thr <sup>30</sup> → Ser <sup>30</sup> ,
Met <sup>17</sup> → Ile <sup>17</sup> ,	Arg <sup>67</sup> → Lys <sup>67</sup> ,	Val <sup>68</sup> → Ala <sup>68</sup> ,
Met → Leu,	Val <sup>77</sup> → Ala <sup>78</sup> ,	and Tyr <sup>85</sup> → Phe <sup>85</sup> .

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5. (amended) A humanized antibody specific for HBV surface antigen pre-S1, containing humanized light chain variable region comprises amino acid sequence described by SEQ ID NO: 23.

6. A gene encoding humanized heavy chain which contains a humanized heavy chain variable region of claim 2, 3 or 4.

7. The gene of claim 6, wherein the humanized heavy chain variable region comprises amino acid sequence described by SEQ ID NO: 20:

8. The gene of claim 6, wherein the humanized heavy chain variable region comprises amino acid sequence described by SEQ ID NO: 21.

9. A gene encoding humanized light chain which contains a humanized light chain variable region comprising amino acid sequence described by SEQ ID NO: 23.

10. An expression vector containing the gene of claim 6.

11. The expression vector of claim 10, pCMV-HKR127HC, wherein the gene of claim 7 is inserted into pRC/CMV

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